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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/707,665	12/31/2003	Chien-Hsing Lee	10755-US-PA	1664	
31561	7590 08/01/2005		EXAM	EXAMINER	
JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE			NGUYEN, VIET Q		
7 FLOOR-1, NO. 100 ROOSEVELT ROAD, SECTION 2 TAIPEI, 100			ART UNIT	PAPER NUMBER	
			2827		
TAIWAN			DATE MAILED: 08/01/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	۹,
0.55	10/707,665	CHIEN-HSING LEE	
Office Action Summary	Examiner	Art Unit	
	Viet Q. Nguyen	2827	
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet w	vith the correspondence addres	ss
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replection of the provision of the period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may a ply within the statutory minimum of the dwill apply and will expire SIX (6) MO te, cause the application to become A	i reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this commuNBANDONED (35 U.S.C. § 133).	unication.
Status			
Responsive to communication(s) filed on 2a) ☐ This action is FINAL. 2b) ☑ This action is application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal ma	·	erits is
Disposition of Claims			
4) ☐ Claim(s) 1-17 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-17 are subject to restriction and/or	awn from consideration.		·
Application Papers			
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre 11) The oath or declaration is objected to by the E	cepted or b) objected to e drawing(s) be held in abeya ction is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in ority documents have bee au (PCT Rule 17.2(a)).	Application No n received in this National Sta	ige
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/06) Paper No(s)/Mail Date	Paper No	v Summary (PTO-413) o(s)/Mail Date Informal Patent Application (PTO-15)	2)

DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of the claimed invention:

Group 1, claims 1-5 are drawn to a non-volatile cell structure having a plurality of MOS transistors..., a shared coupled capacitor structure coupled between transistors of adjacent bit line from second doped electrodes, wherein the shared coupled capacitor comprises at least two gloating-gate MOS capacitors, each capacitor having first and second S?D regions,..., and the second S/D region is shared with an adjacent one of the floating gate transistor;

Group 2, claims 6-12 are drawn to a nonvolatile memory cell comprising a MOS transistor, a floating-gate MOS transistor having first S/D region coupled to second doped electrode, second S/D region coupled to first voltage terminal and a floating gate, and a MOS capacitor having gate-capacitor electrode coupled to the floating gate of said floating-gate MOS transistor and a substrate-capacitor electrode coupled to a second voltage terminal;

Group 3, claims 13-15 are drawn to a non-volatile cell structure having first transistor, a second transistor with first S/D coupled to first voltage terminal and second S/D coupled to second S/D of first electrode, and a shared capacitor structure providing two capacitors respectively coupled to the gate electrodes of first and

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second transistor,...wherein the first transistor as a first cell and second cell serve together as a dual-cell memory cell;

Group 4, claims 16-17 are drawn to a nonvolatile memory cell comprising a plurality of sub-memory cells grouped as a memory cell, and adapted to a bit line and a word line, wherein the cell is programmed using the sub-memory cell one after one, so that it can be programmed multiple times.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the

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case. In either instance, if the examiner finds one of the inventions unpatentable over

the prior art, the evidence or admission may be used in a rejection under 35

U.S.C. 103(a) of the other invention.

2. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Viet Q. Nguyen whose telephone number is (571) 272-

1788. The examiner can normally be reached on 7am-6pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hoai Ho can be reached on (571) 272-1777. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Viet Q Nguyen **Primary Examiner**

Geellen

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V. Nguyen 7/26/2005

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